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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/822,647	03/30/2001	· Kazushi Wada	09792909-4799 764.		
26263	7590 05/28/2003			· 	
SONNENSO	CHEIN NATH & ROSE	EXAMINER			
	RIVE STATION	SOWARD, IDA M			
CHICAGO, I	L 60606-1080	ART UNIT	PAPER NUMBER		
			2822		
			DATE MAILED: 05/28/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

[		Application No		Applicant(s)					
, , ,		09/822,647	•	WADA, KAZUSHI	Q-				
	Office Action Summary	Examiner		Art Unit					
		Ida M Soward		2822					
Period fo	The MAILING DATE of this communication apported to the second section apported to the second section apport	pears on the cove	r sheet with the c	orrespondence addi	ress				
THE ! - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION.  Is since the provisions of 37 CFR 1.5 SIX (6) MONTHS from the mailing date of this communication.  Is period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, how ly within the statutory mi will apply and will expire e, cause the application	vever, may a reply be tin nimum of thirty (30) day SIX (6) MONTHS from to become ABANDONE	nely filed s will be considered timely. the mailing date of this com D (35 U.S.C. § 133).	munication.				
1)🖂	Responsive to communication(s) filed on 06.	January 2003							
2a)	This action is <b>FINAL</b> . 2b)⊠ Th	nis action is non-f	inal.						
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	Ex parte Quayre	, 1935 G.D. 11, 4	53 U.G. 213.					
4)⊠	Claim(s) 1-3 is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.									
5) Claim(s) is/are allowed.									
6)⊠ Claim(s) <u>1-3</u> is/are rejected.									
7)	Claim(s) is/are objected to.								
1	Claim(s) are subject to restriction and/o	or election require	ement.						
	on Papers								
i	The specification is objected to by the Examine								
10)[_]	The drawing(s) filed on is/are: a)□ acce		•						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.									
If approved, corrected drawings are required in reply to this Office action.									
12) The oath or declaration is objected to by the Examiner.									
_	inder 35 U.S.C. §§ 119 and 120		T.I.O.O. C 440/-	) (al) == (\$)					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).									
a)[	a) All b) Some * c) None of:								
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
* s	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.								
	cknowledgment is made of a claim for domest		•		pplication).				
,	) $\square$ The translation of the foreign language pro	•							
15) 🗌 🗚	Acknowledgment is made of a claim for domest	tic priority under	35 U.S.C. §§ 120	and/or 121.					
Attachment	t(s)								
2) D Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s) _	4)		(PTO-413) Paper No(s) Patent Application (PTO-					
U.S. Patent and Tr PTO-326 (Rev	ademark Office v. 04-01) Office Ad	ction Summary	· · · · · · · · · · · · · · · · · · ·	Part of Paper No. 13					

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#### **DETAILED ACTION**

This Office Action is in response to Applicant's amendment filed January 6, 2003.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figure 4 in view of Yamashita et al. (5,463,232).

Admitted Prior Art Figure 4 teaches a solid state imaging device having an output portion 113 connected to an output end of a horizontal transfer register 112, the output portion having a gate structure 142 including an oxide film 121 and a nitride film 122, the solid-state imaging device comprising: upper layer films 151 & 161 allowing light to pass through; a first metal made shield film 155 formed in such a manner as to cover a region of the gate structure including an oxide film being disposed above a transfer portion of the solid state imaging device, wherein a metal made film 145 has an opening at a position directly over a floating diffusion region 143 of the solid state imaging device; a film 161 capable of absorbing ultraviolet rays, the organic film being formed in such a manner as to cover a region of the gate structure including an oxide film and a nitride film, excluding a transfer portion of the solid state imaging device; and a wavelength of 400 nm or less. However, Admitted Prior Art Figure 4 fails to teach a second metal made shield film. Yamashita et al. teach a second 272 metal made shield film (Figure 22, col. 13, lines 3-12). Since Admitted Prior Art Figure 4 and Yamashita et

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al. are from the same field of endeavor (solid-state imaging devices), the purpose disclosed by Yamashita et al. would have been recognized in the pertinent art of Admitted Prior Art Figure 4. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the solid-state imaging device of Admitted Prior Art Figure 4 by incorporating the second metal made shield of Yamashita et al. to enhance image sense performance (col. 14, lines 9-25).

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art Figure 4 and Yamashita et al. (5,463,232) as applied to claims 1-2 above, and further in view of Haga et al. (5,140,397).

Admitted Prior Art Figure 4 and Yamashita et al. teach all mentioned in the rejection above. However, Admitted Prior Art Figure 4 and Yamashita et al. fail to teach an organic film capable of absorbing rays. Haga et al. teach an organic film 11 capable of absorbing rays (Figure 3, col. 6, lines 1-19). Since Admitted Prior Art Figure 4, Yamashita et al. and Haga et al. are from the same field of endeavor (solid-state imaging devices), the purpose disclosed by Haga et al. would have been recognized in the pertinent art of Admitted Prior Art Figure 4 and Yamashita et al. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the solid-state imaging device of Admitted Prior Art Figure 4 and the second metal made shield of Yamashita et al. by incorporating the organic film of Haga et al. to lower manufacturing costs (col. 3, lines 52-55).

## Response to Arguments

Applicant's arguments with respect to claims 1-3 have been considered but are moot in view of the new ground(s) of rejection.

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#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following patents are cited to further show the state of the art with respect to solid-state imaging devices:

Inuiya (4,641,169)

Koike et al. (4,364,973)

Miida (US 6,512,547)

Suzuki (4,467,341).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ida M. Soward whose telephone number is (703) 305-3308. The examiner can normally be reached on Monday through Thursday, from 6:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Amir Zarabian, can be reached at (703) 308-4905. The Group fax number is (703) 872-9318.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

ims 5/17/03

Stephen D. Meier Primary Examiner